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Your Ref

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: 2003055969/041025/TMABS/7289

Date

: 25/10/2004

Writer's Direct Line: 6330 2748

DREW & NAPIER LLC P.O. BOX 152 ROBINSON ROAD

SINGAPORE 900302

Dear Sir

Singapore Patent Application No.: 200305596-9

Title of invention: INK CONTAINER, RECORDING HEAD AND RECORDING DEVICE USING

SAME

Applicant(s): CANON KABUSHIKI KAISHA (JP)

SEARCH AND EXAMINATION REPORT

The search and examination report for this application has been established and a copy of it is attached. The application will proceed to publication in accordance with section 27 of the Patents Act (Cap. 221).

Your attention is drawn to the provisions of the Patents Act and Patents Rules (Cap. 221, R1) for further proceedings in relation to this application. In particular, you can now proceed to file your request for the grant of the patent. Please refer to sections 30 to 32 of the Patents Act and rules 47 to 50 of the Patents Rules, in this respect, especially the prescribed time limits for the necessary actions.

If you have any further queries, please do not hesitate to contact the undersigned.

Thank you.

Yours faithfully

Annie Besant d/o Surendran for REGISTRAR OF PATENTS

SINGAPORE

A statutory board of the Ministry of Law





51m - 20/3/07



Austrian Patent Office Service and Information Sector (TRF)

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To REGISTRY OF PATENTS 51 Bras Basah Road		Tel.No.: ++431/53424/0 Fax.No.: ++431/53424/520 Date of mailing: 0 8. Juli 2004		
#04-01 Plaza By The Park SINGAPORE 0718				
Applicant CANON KABUSHIKI KAISHA				
Application No. 200305596-9	Filing Date 25 September 20	03 (25.09.2003)	(Earliest) Priority Date 30 September 2002 (30.09.2002)	
International Patent Classification (IPC ⁷		2/175		
Please find enclosed the	SEARCH REPOR	RT		
×	EXAMINATION		TPSS 15700.04 PW 8=47	
provided by the Austrian Patent Offic Understanding between the Governm		nation Authority ac	Office (MOU)	
			Best regards	
AUSTRIAN PATENT O Service and Informat Sector TRF			Dr. Flammer	
the examination of the written opinion	panied by a copy of eac report	•	nt cited in the report)	

Austrian Patent Office

Application No. 200305596-9	Applicant: CANON KABUSHIKI KAISHA			
Filing date 25 September 2003 (25.09.2003)	(Earliest) Priority Date 30 September 2002 (30.09.2002)			

GENERAL OBSERVATIONS

- ☑ With regard to the abstract the text has been established by this Authority as it appears on the following section FSG005.
- ☑ The application contains neither statements disparaging any person nor expressions etc. contrary to morality or the public order.
- Unity of invention is given.

Consequently, all parts of the application were the subject of examination in establishing this report.

■ Basis of the report:

The search report and the examination report have been drawn on the basis of the application as transmitted with the request.

AUSTRIAN PATENT OFFICE Dresdner Straße 87, A-1200 VIENNA Facsimile No. ++431/53424/535

Authorized Officer

WITTMANN K.

Telephone No. ++431/53424/ 380

FSG003 (4/2002) GENERAL OBSERVATIONS Page 1



SEARCH REPORT

Application No. 200305596-9

TEXT OF THE ABSTRACT

INK CONTAINER, RECORDING HEAD AND RECORDING DEVICE USING SAME

An ink container (10A, 10B) includes a casing (11) having a substantially rectangular shape; a plurality of ink accommodating portions defined by partition (52) in the casing; ink supply ports (14) provided, in a bottom side of the casing, for the ink accommodating portions, respectively; wherein the ink container is detachably mountable to a holder (31) provided with a recording head portion (32) for ejecting ink accommodated in the ink accommodating portion, wherein the plurality of ink supply ports (14) are disposed deviated toward one of long edge (Q) of the bottom side; and a plurality of dimple portions (40) in which the supply ports are formed, respectively, and the dimples is cut away (40a) and opens adjacent to the one of edges.

Figure 1.



SEARCH REPORT

Application No. 200305596-9

A. CLASSIFICATION OF SUBJECT MATTER According to the International Patent Classification (IPC ⁷): B41J 2/175					
B. FIELDS SI	EARCHED IPC ⁷ :	IJ			
Electronic data ba	ise consulted during the search (name of data ba	se and, where practicable, search terms	s used)		
C. DOCUME	NTS CONSIDERED TO BE RELEVA	ANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
А	US 5619237 A (INOUE et al.) 8 figs. 30b, 3		1-9		
Α	 US 6137512 A (HIGUMA et al.) 24 figs. 8, 9		4-7		
Further docu	ments are listed in the continuation of Box C.	See patent family annex.			
"A" document del considered t	fining the general state of the art which is not o be of particular relevance	ater document published after the filing date conflict with the application but cited to und theory underlying the invention locument of particular relevance; the claime considered novel or cannot be considered to	derstand the principle or		
"L" document whor which is a another citat	nich may throw doubts on priority claim(s) cited to establish the publication date of "Y" diion or other special reason (as specified)	when the document is taken alone locument of particular relevance; the claime considered to involve an inventive step whe combined with one or more other such doc	ed invention cannot be		
"O" document referring to an oral disclosure, use, exhibition being obvious to a person skilled in the art or other means "&" document member of the same patent family "P" document published prior to the filing date but later than the priority date claimed					
Date of actual completion of the search: 4 May 2004 (04.05.2004)					
AUSTRIAN PA	FENT OFFICE 87, A - 1200 VIENNA	Authorized Officer WITTMANN K.	•		
Facsimile No. +4	· ·	Telephone No. ++431/53424/ 380			



Austrian Patent Office

Application No. 200305596-9	Applicant CANON KABUSHIKI KAISHA			
Filing date 25 September 2003 (25.09.2003)	(Earliest) Priority Date 30 September 2002 (30.09.2002)			

SEARCH REPORT

EXPLANATIONS

The documents cited in the search report disclose:

US 5619237: The ink jet printer has a carriage mounted on guide rails and moving across the printing material. The carriage supports a print head unit. The print head is removable and can be changed between a black print head and a colour print head. Each print head has space to hold an ink container which houses either black or coloured ink.

The container is rotated into the head using a front stepped area for guidance and a rear claw to retain it. The claw is pressed forward during loading or unloading. The print head has projections that allow it to be pulled upward to release the print head.

US 6137512: The ink container includes a fibrous material. An ink discharge port discharges ink to an ink jet head. A portion contains the fibrous material at least adjacent the ink discharge port. The fibrous material is deformed within a degree of elasticity, forming several intersections in different directions, and contained in the containing portion. The fibre material has a diameter larger than a diameter of a filter adjacent the discharging port in the ink container or in the ink jet head. Most portions of the fibrous material in contact with an inner wall of the ink container are curved portions. The wall and the fibrous material are made of olefin resin.



· SEARCH REPORT

Information on patent family members

Application No.

200305596-9

This annex lists the patent family members relating to the patent documents cited in the search report. The members are as contained in the EPIDOS INPADOC file.

The Office is in no way liable for these particulars which are merely given for the purpose of information

in sear	cument cited ch report	Publication date	1	Patent i memb	family er(s)	Publication date
US A	5619237		DE	D	69532150D	2003-12-24
			DE	T	69528778T	2003-11-20
			EP	A	1354711	2003-10-22
			CA	A	2434525	1996-02-25
			US	A	2003117468	2003-06-26
			ES	T	2186956T	2003-05-16
			DE	T	69529236T	2003-06-05
			CA	A	2402573	1996-02-25
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	•		DE	D	69529236D	2003-01-30
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			DE	U	29522398U	2002-11-21
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			KR	В	156794	1999-03-30
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			EP	A	0885729	1998-12-23
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			US	В	6412932	2002-08-01
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			บร	A	2002021339	2002-05-28
			ES	T	2162881T	2002-02-21
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			EP		69523672D	2001-12-13
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	•		US	A	6137512	2000-10-24
			EP	A	1027994	2000-08-16
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			KR	B	156614	1998-12-01
			SG	A	67459	1999-09-21
			ΑU	A	1008399	1999-03-04



- SEARCH REPORT

Information on patent family members

Application No.

200305596-9

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
		AU	A	1008299	1999-03-04
		AU	В	697516	1998-10-08
		SG.	A	34993	1997-02-01
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		JP	Α	8020115	1996-01-23
		JP	Α	8020116	1996-01-23



X	EXAMINATION REPORT
	WRITTEN OPINION

Application No. **200305596-9**

	WRIT	TEN (OPINION	200000330-3				
Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
Date of actual completion of the report / opinion: 4 May 2004 (04.05.2004)								
1. STATEMENT								
Novelty (N)	YES	Claims	1-9					
	NO	Claims						
Inventive step (IS)	YES	Claims	1-9					
	NO	Claims						
Industrial applicability (IA)	YES	Claims	1-9					
	NΟ	Claims						

2. CITATIONS AND EXPLANATIONS

The following documents have been cited in the Search Report:

D1: US 5619237 A D2: US 6137512 A

With regard to claims 1-9 the patent documents cited in the search report merely represent a state of the art not disclosing all the essential features of these claims.

Therefore said documents do not anticipate novelty and inventiveness of the subject matter of these claims.

Industrial applicability is given.